

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CCTGTCCCCG CCCCCGGGC GGGCCGGGG CGGGGTCCCG GCGGGCGGA 50
GCCATGCCGC CCCCCCTTT TTTTTTAAAGTGGCTGG TAGCGGGAG 100
GATCGCGGAG GCTTGGGCA GCCGGGTAGC 130

(2) INFORMATION FOR SEQ ID NO:5:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 60 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CTGACGGAGA GAGAGACAGA CACCGCCCC AGCCCCAGCT ACCACCTCCT 50
CCCCGGCCGG 60

(2) INFORMATION FOR SEQ ID NO:6:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 69 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

TGGCGAGACA GTGCTCCAGC CGCGCGCCT CCCCAGGCC TGGCCCGGGC 50
CTCGGGCCGG GGAGGAAGA 69

(2) INFORMATION FOR SEQ ID NO:7:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 89 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

AAAGTGTATT ATATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT 50
TAAAACAGTT AATTTAATTA AAGATAGGGT TTTTTTCA 89

(2) INFORMATION FOR SEQ ID NO:8:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 62 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TTTTTTAATT TTAATATTTG TTATCATTAA TTTATTGGTG CTACTGTTA 50
TCCGTAATAA TT 62

(2) INFORMATION FOR SEQ ID NO:9:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 72 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATACATTTAT ATATATATAT ATTATATATA TATAAAATA AATATCTCTA 50
TTTATATAT ATAAAATATA TA 72

(2) INFORMATION FOR SEQ ID NO:10:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 89 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA

Sub D2

D
cont

Sub D2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
AAAGTGTTTT ATACGGTA CTTATTTAAT ATCCCTTTT AATTAGAAAT
TAAAACAGTT AATTTTAATTA AAGATAGGGT TTTTTTCA

50
89

J Cont

(2) INFORMATION FOR SEQ ID NO:11:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 61 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
TCTTAAAAAA AAAAAGCAT TTTGTATTAAGAATTAAAT TCTGATCTCA
AAGCTCCTCT T

50
61

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT:
(ii) TITLE OF THE INVENTION:

(iii) NUMBER OF SEQUENCES:
(iv) CORRESPONDENCE ADDRESS:
 (B) STREET:
 (C) CITY:
 (D) STATE:
 (E) COUNTRY:
 (F) ZIP:
(v) COMPUTER READABLE FORM:
 (A) MEDIUM TYPE:
 (B) COMPUTER:
 (C) OPERATING SYSTEM:
 (D) SOFTWARE:
(vi) CURRENT APPLICATION DATA:
 (A) APPLICATION NUMBER:
 (B) FILING DATE:
 (C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA:
 (A) APPLICATION NUMBER:
 (B) FILING DATE:
(viii) ATTORNEY/AGENT INFORMATION:
 (A) NAME:
 (B) REGISTRATION NUMBER:
 (C) REFERENCE/DOCKET NUMBER:
(ix) TELECOMMUNICATION INFORMATION:
 (A) TELEPHONE:
 (B) TELEFAX:
 (C) TELEX:

Rakoczy et al.
HYALURONIC ACID AS DNA CARRIER FOR
GENE THERAPY AND VEGF ANTISENSE DNA
TO TREAT ABNORMAL RETINAL
VASCULARIZATION

11

ARTER & HADDEN
725 South Figueroa St, # 2400
Los Angeles
CA
USA
90071

Diskette
IBM Compatible
DOS
FastSEQ for Windows Version 2.0

USSN 09/065,082
23-APR-1999

PCT AU96/00664
22-OCT-1996

Amzel, Viviana
30,930
EPI-109

213-430-3520
213-617-9255

(2) INFORMATION FOR SEQ ID NO:1:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 19 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AGGAGAGCAG AAGTCCCAT 19

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 19 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CGTCAGAGAG CAACATCAC 19

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 77 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CCAGACTCCA CAGTGATAC GTGGGCTCCA ACAGGTCTC TTCCCTCCCA
GTCACTGACT AACCCCGGAA CCACACA 50
77

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130 base pairs